

Observations of Sappho, made at the Cambridge Observatory by Mr. A. Graham with the Northumberland Equatorial and Square Bar-Micrometer.

(Communicated by Professor J. C. Adams.)

Greenwich Mean Time.	Apparent R.A.			Apparent Decl.		Reduction to Geoc. Place in R.A.		Compared Star.	No. of Comps.	Correction of Ephemeris in R.A.	Correction of Ephemeris in Decl.
	h	m	s	°	'	s	"				
1888, April 14 39868	13	18	25.38	-12	8	0.05	+4.66	a	10	+6.69	-34.34
39868	13	18	25.55	-12	7	57.53	-0.12	b	10	+6.86	-31.82
1640366	13	16	34.05	-11	50	42.34	-0.11	c	1	+6.52	-31.55
40366	13	16	34.57	-11	50	43.06	-0.11	d	1	+7.03	-32.27
1839188	13	14	45.35	-11	33	29.92	-0.11	e	10	+6.82	-31.98
3046232	13	4	35.66	-	9	50	50.03	f	5	+6.64	-35.49
46536	g-0 54.84			g+4 23.16			+0.04	g	4		

Mean Places of Compared Stars for 1888.0, with Reductions to Apparent Place.

	R.A. 1888.0.		Decl. 1888.0.		Reduction to Apparent Place in R.A.		Authorities.
	h	m s	°	' "	s	"	
<i>a</i>	13	16	13.16	- 11 59	31.23	+ 1.31	B. (W.) 13 <sup>h</sup> , 230.
<i>b</i>	13	20	48.23	- 12 7	26.43	+ 1.31	Greenwich Catalogue for 1872, 1230.
<i>c</i>	13	13	42.57	- 11 53	37.34	+ 1.31	B. (W.) 13 <sup>h</sup> , 193.
<i>d</i>	13	14	6.57	- 11 52	45.88	+ 1.31	B. (W.) 13 <sup>h</sup> , 202.
<i>e</i>	13	12	56.35	- 11 25	30.00	+ 1.31	Place given in Mr. Bryant's Ephemeris.
<i>f</i>	13	8	52.92	- 9 46	31.73	+ 1.31	Argentine Catalogue 18023.
<i>g</i>	13	5	28.96	- 9 55	5.45	+ 1.30	By 4 comparisons with ( <i>f</i> ) April 30.

On April 26, probably by some mistake in giving the time, a small star was observed instead of the planet. The places of several stars, deduced from 11 comparisons, with B. (W.) 13<sup>h</sup>.34 on that night may be useful to other observers.

Assumed place of B. (W.) 13 <sup>h</sup> .34	R.A. 1888.0.		Decl. 1888.0.		Mag.	Reduction to Apparent Place in R.A.	
	h	m s	°	' "		s	"
	13	5	25.63	- 10 30	29.78	+ 1.31	- 6.57
	13	6	33.79	- 10 25	6.44	+ 1.31	- 6.51
	13	6	50.98	- 10 25	28.13	+ 1.31	- 6.51
	13	8	52.82	- 10 27	9.38	+ 1.31	- 6.43

*Note.*—The places of the above stars of comparison, as well as those of the stars in Mr. Bryant's Ephemeris, have been observed with the Cambridge Transit Circle, but the observations have not yet been reduced.

Cambridge Observatory: 1888, May 3.

*Occultations of Stars observed during the Lunar Eclipse of 1888, January 28. By E. Nevill, Government Astronomer.*

By mischance we did not receive until two days after the eclipse the list of phenomena calculated for this observatory by Dr. Döllén, and so were dependent for our information on a copy of the list of stars occulted at the Cape, which was forwarded to us by Dr. Gill a few days before the eclipse.

The observations were made by myself with the 8-inch Grubb Refractor, power 125, the times being noted and recorded by my assistant, Mr. Grant

The Moon's limb, though eclipsed, was too bright to enable stars of the 10th or 11th magnitude to be observed with any certainty.

Star. No. on Döllén's List.	Phenomena.	Observed Greenwich Mean Time. h m s	Star. No. on Döllén's List.	Phenomena.	Observed Greenwich Mean Time. h m s
86	Reapp.	10 40 42.0	143	Disapp.	11 12 5.2
129	Disapp.	44 8.1	147	Disapp.	18 27.7
127	Disapp.	48 49.6	95	Reapp.	20 38.8
122	Disapp.	50 23.8	159	Disapp.	33 25.4
76	Reapp.	11 1 51.3	122	Reapp.	59 42.6
88	Reapp.	3 3.5	169	Disapp.	12 3 10.9
68	Reapp.	4 17.8	179	Disapp.	5 30.2
*	Disapp.	9 29.7	127	Reapp.	10 1.9
140	Disapp.	9 53.2			

In all 17, or 10 disappearances and 7 reappearances.

*Natal Observatory :*  
1888, April 4.